

FORM PTO-1449	US Dept. of Commerce Patent and Trademark Office	ATTORNEY DOCKET NO. 401	SERIAL NO. 09/442,568
INFORMATION DISCLOSURE STATEMENT  (use several sheets if necessary)		APPLICANT Frank DiMeo Jr. et al	RECEIVED  FEB 28 2000
		FILING DATE November 18, 1999	
		GROUP TECHNOLOGY CENTER 2800 2856	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,006,582	Dec 28 1999	Bhandari et al			
HP	AB	3,951,603	Apr 20 1976	Obayashi et al.			
HP	AC	3,953,173	Apr 27 1976	Obayashi et al.			
HP	AD	5,670,115	Sep 23 1997	Cheng et al			
	AE	5,668,301	Sep 16 1997	Hunter			
HP	AF	5,733,506	Mar 31 1998	Silver et al			

## FOREIGN PATENT DOCUMENTS

		NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION YES	NO

## OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)

HP	AG	✓	Griessen-R et al., "Yttrium and lanthanum hydride Films with Switchable Optical Properties", Journ. of Alloys and Compounds 1997, Vol. 253, Iss May, pp. 44-50	✓
HP	AH	✓	Vajda-P, "Hydrogen ordering and metal semiconductor transitions in superstoichiometric rare-earth dihydrides" Journ. of Alloys and Compounds, 1995, Vol. 231, Iss 1-2, pp. 170-175	✓
HP	AI	✓	Huiberts-JN et al., "Synthesis of yttrium hydride films for ex-situ measurements", Journ. of Alloys and Compounds 1996, Vol. 239, Iss 2, pp. 158-171	✓
HP	AJ	✓	J.N. Huiberts, R. Griessen J.H. Rector, R.J. Wijngaarden, J.P. Dekker, D.G. de Groot, N.J. Koeman, Nature 1996, Vol. 380, Iss 6571, pp. 231-234	✓
HP	AK	✓	Wang, X.W., et al, "Nature of the Insulating State in LaH <sub>3</sub> ", Physical Review B-Condensed Matter 1997, Vol. 56, Iss 12, pp. R7049-R7052	✓
HP	AL	✓	Rehmof, A., et al, "Reversible loading of epitaxial Y(00.1) films with hydrogen", Physical Review B-Condensed Matter 1997, Vol. 56, Iss 6, pp. R2897-R2899	✓
HP	AM	✓	Kelly, P.J., et al, "Theoretical prediction of the structure of insulating Yh <sub>3</sub> ", Physical Review Letters 1997, Vol. 78, Iss7, pp. 1315-1318	✓
HP	AN	✓	Reisfeld G., et al, "Hydrogen absorption by thin Pd/Nb films deposited on glass", Physical Review B-Condensed Matter 1996, Vol. 53, Iss 8, pp. 4974-4979	✓

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EXAMINER  <i>H. Phan</i>	DATE CONSIDERED  1/12/01
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

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EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HP	AO	5,635,729	Jun. 3, 1997	Griessen et al			
HP	AP	4,574,095	Mar 4 1986	Baum, et al.			
HP	AQ	5,279,795	1/18/94	Hughes et al			
HP	AR	5,417,821	5/23/95	Pyke			
HP	AS	5,652,433	7/29/97	Ouwekerk et al			
HP	AT	4,058,368	11/15/77	Svensson et al			

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HP	AU	Vajda, P. in Handbook on the Physics and Chemistry of Rare Earths, Vol. 20 (eds Gschneidner, K.A.; Eyring, L.) Amsterdam, Elsevier, 1995, pp. 207-291.	✓
HP	AV	Mueller, W.M.; Blackledge, J.P.; Libowitz, G.G. in Metal Hydrides (eds Mueller, W.M.; Blackledge, J.P.; Libowitz, G.G.) New York, Academic, 1968, Ch. 9 & 10.	✓
HP	AW	Encyclopedia of Inorganic Chemistry, ed. R. Bruce King, John Wiley & Sons, NY, Vol. 6, pp. 3010-3011.	✓
HP	AX	Chenier, J.P. in Survey of Industrial Chemistry, New York, VCH, 1992, p. 60.	✓
HP	AY	(M. Terrones et. al., <i>MRS Bulletin</i> , 24, 8, pp. 44, (1999)).	✓
HP	AZ	Evans, W.J.; Drummond, D. K.; Hanusa, T.P.; Doedens, R.J. "Bis(1,3-dimethylcyclooctadienyl)yttrium Complexes. Synthesis and X-ray Crystallographic Characterization of [(1,3-Me <sub>2</sub> C <sub>3</sub> H <sub>3</sub> ) <sub>2</sub> Y(μ-Me)] <sub>2</sub> , [(1,3-Me <sub>2</sub> C <sub>3</sub> H <sub>3</sub> ) <sub>2</sub> Y(μ-Me)] <sub>3</sub> , and [(1,3-Me <sub>2</sub> C <sub>3</sub> H <sub>3</sub> ) <sub>2</sub> (THF)Y(μ-Me)] <sub>2</sub> , <i>organometallics</i> 1987, Vol.6, pp. 2279-2285	✓
HP	BA	Jeske, G.; Lauke, H.; Mauermann, H.; Swepston, P.N.; Schumann, H.; Marks, T.J., "Highly Reactive Organolanthanides. Systematic Routes to and Olefin Chemistry and Late Bis(pentamethylcyclopentadienyl) 4f Hydrocarbyl and Hydride Complexes", <i>J. Am. Chem. Soc.</i> 1985, Vol. 107, pp. 8091-8103	✓

Continue on Page 3

EXAMINER  Hughes	DATE CONSIDERED  1/12/07
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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HP	BB	5,520,753	5/28/96	Hunter		
	BC	5,668,301	9/16/97	Hunter		
HP	BD	4,892,834	1/9/90	Rauh		
HP	BE	5,773,506	3/31/98	Silver et al		
	BF	5,668,301	9/16/97	Hunter		
HP	BG	3,768,975	10/30/73	Toy		

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NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION YES NO

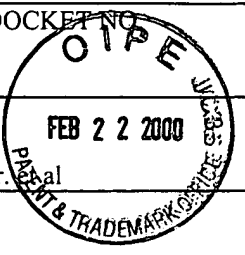
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HP	BH	Wilkinson, G.; Birmingham, J.M., "cyclopentadienyl Compounds of Sc, Y, La, Ce and Some Lanthanide Elements", <i>J. Am. Chem. Soc.</i> 1954 Vol. 76, p. 6210. ✓
HP	BI	Wayda, A.L., "Mono-, bis- and tris(t-butylcyclopentadienyl)lanthanoid Complexes", <i>J. Organomet. Chem.</i> 1989, Vol. 361, p. 73. ✓
HP	BJ	Tsutsui, M.; Gysling, H.J., "A New Series of Organolanthanides: Ln(indenyl) <sub>3</sub> ", <i>J. Am. Chem. Soc.</i> 1969, Vol. 91, pp. 3175-3178. ✓
HP	BK	Schulz, D.L.; Hinds, B.J.; Neumayer, D.A.; Stern, C.L.; Marks, T.J., "Barium B-Ketoiminate Complexes Containing Appended Ether Lariats. Synthesis, Characterization, and Implementation as Fluorine Free Barium MOCVD Precursors", <i>Chem. Mater.</i> 1993, Vol. 5, pp. 1605-1617. ✓
HP	BL	McGeachin, S.G., "Synthesis and Properties of Some B-Diketiminates Derived From Acetylacetone, And Their Metal Complexes", <i>Can. J. Chem.</i> 1968, Vol. 46, pp. 1903-1912. ✓
HP	BM	Van Buskirk, P.C.; Kirlin, P.S., "BaTiO <sub>3</sub> - SrTiO <sub>3</sub> DRAM's Final Report", <i>Phase I Final Report</i> , Contract # DNA001-91-C-0078, February, 1991. ✓

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EXAMINER  <div style="text-align: center; font-family: cursive; font-size: 1.2em;">Hopkan</div>	DATE CONSIDERED  <div style="text-align: center; font-family: cursive; font-size: 1.2em;">1/12/07</div>
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## U.S. PATENT DOCUMENTS

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HP	BN	5,783,152	7/21/98	Nave			

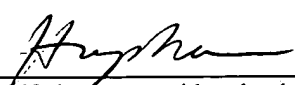
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HP	BO	Zhang, J.; Gardiner, R.; Kirlin, P.S., <u>Layered Superconductors: Fabrication, Properties and Applications</u> , ed. D.T. Shaw and T.R. Schneider, MRS Proceedings, 1992, Vol. 275, p. 419.	
HP	BP	J.S. Suehle, et al., "Tin oxide gas sensor fabricated using CMOS micro-hotplates and in situ processing," IEEE Electron Device Lett., Vol. 14, 1993, pp. 118-120.	
HP	BQ	Semancik et al., "The use of surface and thin film science in the development of advanced gas sensors," Appl. Surf. Sci., Vol. 70, 1993, pp. 337-346.	
HP	BR	R.E. Cavicchi, et al., "Fast temperature programmed sensing for microhotplate gas sensors," IEEE Electron Device Letters, Vol. 16, 1995, pp. 286-288.	
HP	BS	R.E. Cavicchi, et al., "Growth of SnO <sub>2</sub> films on micromachined hotplates," Appl. Phys. Lett., Vol. 66, 1995, pp. 812-814.	
HP	BT	F.J.A. den Broeder, et al., "Visualization of hydrogen migration in solids using switchable mirrors," Nature Vol. 394, 1998, pp. 656-658.	
HP	BU	Van der Sluis, et al., "Optical switches based on magnesium lanthanide alloy hydrides," Appl. Phys. Lett., Vol. 70, 1997, pp. 3356-3358.	

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BP	BV	J.N. Huiberts et al., Logarithmic divergence of the electrical resistivity in the metal hydride YH <sub>3</sub> -d," Physical Review Letters, Vol. 79, 1997, pp. 3724-3727.	
BP	BW	Kremers, N.J. et al., "Optical transmission spectroscopy of switchable yttrium hydride films" Physical Review B, Vol. 57, 1998, pp. 4943-4949.	
BP	BX	Bhandari, "Phase Change Materials Lead to Hydrogen Sensors," Sensor Technology, Vol. 13, No. 5, May 1997, p. 7-8.	
BP	BY	J.N. Huiberts, et al., "Yttrium and Lanthanum Hydride Films with Switchable Optical Properties", <i>Nature</i> , 1996, Vol. 380, pp. 231-234.	
BP	BZ	Yannopoulos, L.N.; Edwards, R.K.; Wahlbeck, P.G., "The Thermodynamics of the Yttrium-Hydrogen System", <i>J. Phys. Chem.</i> 1965, Vol.69, pp. 2510-2515.	
BP	CA	Ahuja, R.; Johansson, B.; Wills, J.M.; Eriksson, O. "On the Semiconducting State and Structural Properties of YH <sub>3</sub> from First Principles Theory" <i>Appl. Phys. Lett.</i> , 1997, Vol. 71, No. 24, pp. 3498-3500.	
BP	CB	Notten, P.H.L.; Kremers, M.; Griessen, R., "Optical Switching of Y-Hydride Thin Film Electrodes", <i>J.</i> <i>Electrochem. Soc.</i> 1996, Vol. 143, No. 10, pp. 3348-3353	

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